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Identification Information:
 Citation:
   Citation Information:
     Originator: U.S. Geological Survey
     Publication Date: 20020601
     Title: Phillips Ranch Fire of Great Basin National Park - 2000
     Geospatial_Data_Presentation_Form:
        Raster digital data.
        Vector data are also available as ArcView Shape Files.
     Publication Information:
        Publication_Place: Sioux Falls, South Dakota USA
        Publisher: U.S. Geological Survey
     Online_Linkage: http://edc.usgs.gov
 Description:
   Abstract:
     The U.S. Geological Survey (USGS) has entered into a cooperative
     agreement with the National Park Service (NPS) to deliver
     satellite imagery and derivitive products centered on major
     fires that impact national parks and other federal lands.
     This data set was compiled at the request of a federal land
     management agency and is part of a suite of products generated
     for a specific fire.
     See the National Burn Severity Mapping web site at:
     http://edc2.usgs.gov/fsp/severity/fire_main.asp
   Purpose:
     The purpose of this project is to develop a robust mapping
     methodology and consistent data products that allow federal
     land managers and fire ecologists to evaluate and compare
     burn severity within individual fires and between fires
     across various ecosystems. These products will help land
     managers to more effectively plan, implement and monitor
     fire recovery activities.
   Supplemental_Information:
     Fire Name: Phillips Ranch
     Park: Great Basin
     Date of Fire: 7/27/2000
     Type of assessment: 1 year Extended
     Acres within Fire Perimeter: 1650
     Landsat Path and Row: 39/33
     Pre-Fire Landsat Date/Scene ID: Landsat 7;
     June 20, 2000 / LE7039033000017250
     Post-Fire Landsat Date/Scene ID: Landsat 7;
     June 23, 2001 / LE7039033000117450
     Output Dataset Projection:
     Zone 11
     NAD 27
     Clarke1866
     Image subset Corner Coordinate (center of upper left pixel, projection meters)
     ULX: 726073 LRX: 741523
     ULY:
            4316301 LRY: 4299111
     Image subset size:
     #Rows 574
     #Columns 516
     Pixel size: 30 meters
     Bounding Box:
     North Lat: 38 58 06 N
     South Lat: 38 48 34 N
     East Long: 114 12 45 W
     West Long: 114 23 47 W
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Latitude and Longitude within Fire Perimeter:
    Lat (N)
                              Long (W)
    38 52 38
                      114 18 52
    Fire Perimeter: Automated, (seed value 499, distance 425).
    For further information on NLAPS and Landsat
    TM data, please refer to the metadata documentation found on the
    USGS Clearinghouse website at:
    http://www.fgdc.gov/clearinghouse/clearinghouse.html
    Information on Landsat 7 can be found at the Clearinghouse
    site and also at: http://landsat7.usgs.gov/
    Product list:
    phra00bpretm.tif
    Pre-Fire Landsat TM Color Composite Image subset
    (bands 7,4,3, RGB Geo-TIFF)
    phra00bpostm.tif
    Post-Fire Landsat TM Color Composte Image subset
    (bands 7,4,3, RGB Geo-TIFF)
    phra00b_dnbr
    Differenced Normalized Burn Ratio (DNBR) subset (ArcInfo GRID)
    phra00bp
    Fire Perimeter (shape file)
    dnbrb_39-33
    Full Scene DNBR (ArcInfo GRID)
Time Period of Content:
  Time Period Information:
    Multiple_Dates/Times:
      Single_Date/Time:
        Calendar_Date: 20000620 (pre-fire image)
      Single_Date/Time:
        Calendar_Date: 20000727 (date fire began)
      Single_Date/Time:
        Calendar_Date: 20010623 (post-fire image)
  Currentness_Reference: ground condition
Status:
  Progress: Complete
  Maintenance_and_Update_Frequency: as needed
Spatial_Domain:
  Bounding_Coordinates:
    West_Bounding_Coordinate: -114.23.47
    East_Bounding_Coordinate: -114.12.45
    North_Bounding_Coordinate: 38.58.06
    South_Bounding_Coordinate: 38.48.34
Keywords:
  Theme:
    Theme_Keyword_Thesaurus: none
    Theme_Keyword: burn mapping
    Theme_Keyword: imagery
    Theme_Keyword: fire
    Theme_Keyword: Landsat
  Place:
    Place_Keyword_Thesaurus: none
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Place Keyword: Phillips Ranch Fire
      Place_Keyword: Great Basin National Park
      Place Keyword: Nevada
  Access Constraints: FTP data sets are available to any user.
  Use Constraints: There are no restrictions on use, except for reasonable and proper
acknowledgement of information sources.
  Point_of_Contact:
    Contact_Information:
      +001 605-594-6151 or (USA) 800-252-4547
      Contact Organization Primary:
        Contact_Organization: U.S. Geological Survey
      Contact_Position: CSR
      Contact_Voice_Telephone: +001 605-594-6151
      Contact Address:
        Address Type: physical and mailing address
        Address: 47914 252nd Street
        City: Sioux Falls
        State_or_Province: SD
        Postal_Code: 57198-0001
        Country: USA
      Contact TDD/TTY Telephone: +001 605-594-6933
      Contact_Voice_Telephone: +001 605-594-6151
      Contact_Facsimile_Telephone: +001 605-594-6589
      Contact_Electronic_Mail_Address: fsedc@usgs.gov
      Hours_of_Service: 0800 - 1600 CT, M-F, -6 h GMT
      Contact_Instructions: http://edc2.usgs.gov/fsp/severity/contact_us.asp
  Data Set Credit: USGS and NASA
 Native_Data_Set_Environment: Oracle, ERDAS Imagine, & ArcInfo
Data_Quality_Information:
  Attribute_Accuracy:
   Attribute_Accuracy_Report:
      Three on-board calibrators (two solar, one internal)
      provide an absolute accuracy of 5 percent, excluding band 6.
  Logical_Consistency_Report:
    These Landsat data are collected from a nominal altitude of 705 kilometers
    in a near-polar, near-circular, sun-synchronous orbit at an inclination
    of 98.2 degrees, imaging the same 183-km swath of Earth's surface every
    16 days. The pixels representing the bands for the image are in the
    data set only once.
  Completeness_Report: Fire perimeter was automated; (seed value 499, distance 425).
  Positional_Accuracy:
   Horizontal_Positional_Accuracy:
      Horizontal_Positional_Accuracy_Report:
        Energy reflected from Earth's surface passes through a
        whisk-broom scanning system and all-reflective optics
        before being collected by the solid-state
        detectors at the focal plane.
  Lineage:
    Process_Step:
      Process Description:
        These data products are derived from Landsat Thematic Mapper data.
        A pre-fire scene and a post-fire scene are analyzed to create a
        Diferenced Normalized Burn Ratio (DNBR) image. The DNBR image portrays
        the variations of burn severity within the fire.
        The Landsat images are terrain corrected and geomatrically rectified
        to an Albers Conical Equal Area map projection using the National
        Landsat Archive Production System (NLAPS). The images are further
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processed to convert bands 1-5 and 7 to at-satellite-reflectance.

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The Normalized Burn Ratio (NBR) is computed for each date of imagery
        using the following formula:
        (Band 4 - Band 7) / (Band 4 + Band 7) = NBR
        The differenced NBR is computed by subtracting the post-fire NBR from
        the pre-fire NBR:
        PreNBR - PostNBR = DNBR
        Higher DNBR values are correlated with more severe burns. The DNBR
        image is evaluated to determine the threshold value between burned and
        unburned areas. The perimeter of the fire is delineated using the DNBR
        image. The DNBR image, the pre-fire and post-fire TM images, and a
        fire perimeter vector file are provided in digital format in the map
        projection used by the National Park Service.
      Source_Used_Citation_Abbreviation: TM
      Process_Date: 20020601
      Source_Produced_Citation_Abbreviation: DNBR
  Cloud_Cover: 10
Distribution_Information:
  Distributor:
    Contact_Information:
      Contact_Organization_Primary:
        Contact_Organization: U.S. Geological Survey
      Contact Position:
        Principal Scientist
        Land Cover Applications
      Contact_Address:
        Address_Type: mailing and physical address
        Address:
          47914 252nd Street
          EROS Data Center
        City: Sioux Falls
        State_or_Province: SD
        Postal_Code: 57198-0001
        Country: USA
      Contact_Voice_Telephone: +001 605-594-6151
      Contact TDD/TTY Telephone: +001 605 594-6933
      Contact_Facsimile_Telephone: +001 605 594-6589
      Contact Electronic Mail Address: fsedc@usqs.gov
      Hours_of_Service: 0800 - 1600 CT, M-F, -6 h GMT
      Contact_Instructions: http://edc2.usgs.gov/fsp/severity/contact_us.asp
  Distribution Liability:
    No warranty expressed or implied is made by the USGS
    regarding the use of the data, nor does the act of distribution
    constitute any such warranty.
  Standard_Order_Process:
    Digital_Form:
      Digital Transfer Information:
        Format_Name: Geo-TIFF
        Format Version Number: 1
      Digital_Transfer_Option:
        Online_Option:
          Computer Contact Information:
            Network Address:
              Network_Resource_Name: http://edc2.usgs.gov/fsp/severity/download_data.asp
    Digital_Form:
      Digital_Transfer_Information:
        Format Name: DNBR ArcInfo GRID
        Format_Version_Number: 1
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Digital Transfer Option:
        Online_Option:
          Computer_Contact_Information:
            Network Address:
              Network Resource Name: http://edc2.usqs.gov/fsp/severity/download data.asp
    Digital Form:
      Digital_Transfer_Information:
        Format_Name: shape file
        Format_Version_Number: 1
      Digital Transfer Option:
        Online_Option:
          Computer Contact Information:
            Network_Address:
              Network_Resource_Name: http://edc2.usgs.gov/fsp/severity/download_data.asp
    Fees: No charge
    Ordering Instructions: http://edc2.usgs.gov/fsp/severity/help.asp#ordering
    Turnaround: same day
Metadata_Reference_Information:
  Metadata_Date: 20020703
  Metadata_Contact:
    Contact Information:
      Contact_Organization_Primary:
        Contact Organization:
          USGS EROS Data Center
          Science & Applications Branch
      Contact Position:
        Principal Scientist
        Land Cover Applications
      Contact_Address:
        Address_Type: mailing and physical address
        Address:
          47914 252nd Street
          EROS Data Center
        City: Sioux Falls
        State_or_Province: SD
        Postal Code: 57198-0001
        Country: USA
      Contact Voice Telephone: +001 605-594-6151
      Contact_TDD/TTY_Telephone: +001 605-594-6933
      Contact_Facsimile_Telephone: +001 605-594-6589
      Contact_Electronic_Mail_Address: fsedc@usgs.gov
      Hours_of_Service: 0800 - 1600 CT, M-F, -6 h GMT
      Contact Instructions: http://edc2.usqs.gov/fsp/severity/contact us.asp
  Metadata_Standard_Name: Content Standard for Digital Geospatial Metadata
  Metadata Standard Version: FGDC-STD-001-1998
  Metadata_Access_Constraints: none
  Metadata_Use_Constraints: none
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